

### Results of recent modeling (phase 2 and 2E1, 2E2)

Phase 2 modeling indicated that only one of our proposed allocation scenarios met water quality standards. This was Scenario 2B which required the following:

- Reduction of anthropogenic related DIN nonpoint sources by 70%
- Reduction of anthropogenic related DIN external sources by 70%
- Reducing LOTT to 150 lb. DIN in August and September and leaving them at 1997 levels for the remainder of the year.
- Other internal WWTPs were kept at 1997 levels of DIN.

This scenario was created to represent the maximum amount of reductions we felt we could require. However, some of these reductions might be infeasible.

Scenario 2E represents a more reasonable allocation schema and calls for:

- Reduction of anthropogenic related DIN nonpoint sources by 30%
- Reduction of anthropogenic related DIN external sources by 30%
- Reducing LOTT to 200 lb. DIN in August and September and leaving them at 1997 levels for the remainder of the year.
- Other internal WWTPs were given a 60% increase from 1997 values to reach their current discharge levels.

Two new scenarios were derived to determine what other factors besides DIN might be impacting the system.

2E1: All reductions made to DIN in 2E were expanded to include TON, POC, and DOC.

2E2: All reductions made to DIN in 2E were expanded to include TON.

As shown below, results indicate that 2E1 (but not 2E2) meets standards.

